

8:00 - 8:10	Supratik Guha (Division Director, Nanoscience and Technology) Introductory Remarks
8:10 – 8:50	Mildred Dresselhaus (Massachusetts Institute of Technology) <i>Stacking and Stitching Heterostructures for Functionality</i>
8:50 – 9:30	Phillip Kim (Harvard University) <i>Electronic and Optoelectronic Physics in the van der Waals Heterojunctions</i>
9:30 – 9:45	Break
9:45 – 10:25	Sanjay Banerjee (University of Texas) <i>Electronics and Spintronics in Flatland</i>
10:25 – 11:05	Joerg Appenzeller (Purdue University) <i>Electronic Properties of Transition Metal Dichalcogenide and Black Phosphorous Field-effect Transistors</i>
11:05 – 11:20	Break
11:20 – 11:50	Morning Panel Discussion Mildred Dresselhaus, Phillip Kim, Sanjay Banerjee, and Joerg Appenzeller <i>Designing Electronic Architectures with Novel 2D Materials: Device Fabrication and Metrology</i>
11:50 – 1:20	Lunch and Poster Session
1:20 – 2:00	Peter Littlewood (Argonne National Laboratory) <i>2D Materials for Energy and Sustainability</i>
2:00 – 2:40	Li Yang (Washington University in St. Louis) <i>Black Phosphorous and Beyond</i>
2:40 – 2:55	Break
2:55 – 3:35	Ganesh Kamath (Interx, Inc.) <i>In Silico Predictions of Ionic-liquid-assisted Exfoliation and Dispersion of 2D Nanosheets</i>
3:35 – 4:15	Mark Hersam (Northwestern University) <i>Fundamentals and Applications of Two-dimensional Nanoelectronic Heterostructures</i>
4:15 – 4:30	Break
4:30 – 5:00	Afternoon Panel Discussion Peter Littlewood, Li Yang, Ganesh Kamath, and Mark Hersam

Growth and Characterization of 2D Materials and Heterostructures: Challenges and Prospectives

5:00 – 5:15

Closing Remarks

5:15

Adjourn